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Send to: USPTO	From: Franco Vitaliano
Attention: Technical Center 1600	Date: February 14, 2006
Fax number: 571 273 8300	Phone number: 617 742 4422

Total pages, including cover sheet: 7

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Comments

Please find attached our response to the USPTO regarding Disposition of Claims, Claims 1-68 in pending application No. 10/660,796, Applicants, Vitaliano, et al; Russell S. Negin, Examiner, Art Unit 1631

Regards

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	Application No.	Applicant(s)	
Office Action Summary	10/660,976	VITALIANO ET AL.	
	Examiner	Art Unit	
	Russell S. Negin	1631	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address —	
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by saying reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a n. erlod will apply and will expire SIX (8) MOI statute, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	This action is non-final. owance except for formal mat	-	
Disposition of Claims			
4) Claim(s) 1-68 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-68 are subject to restriction and Application Papers 9) The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	ndrawn from consideration. d/or election requirement. miner. accepted or b) objected to the drawing(s) be held in abeya prrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by th	e Examiner. Note the attache	3 Office Action or form P1 0-152.	
Priority under 35 U.S.C. § 119 12) Acknowledgment Is made of a claim for for a) All b) Some coll None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

Election/Restrictions

The applicant must elect one specie from each of the four categories listed below.

Specie Category #1: type of use of light source

Specie A: The laser light source is a regulated source of photons for use in quantum computing, quantum networks and quantum cryptography (claim 44)

Specie B: The laser light source is a therapeutic agent (claim 45)

Specie C: The laser light source is a diagnostic agent (claim 46)

Specie D: The laser light source is a sensor agent (claim 47)

Specie E: The laser light source is a prosthetic agent (claim 48)

Generic to #1: Claims 1-43, 49-67

Justification: Each classification of a laser light source would require a different and distinct use for the laser light with distinct applications. There would thus be undue search burden in searching all of the topics.

Specie Category #2: coating of the cage

Specie F: the cage is at least partially coated in a substantially reflective material (claim 54)

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Specie G:)the cage is at least partially coated in a substantially non-reflective material \leftarrow

(claim 56)

Specie H: the cage is at least partially metal coated (claim 58)

Generic to #2: Claims 1-53, 55, 57, 59-67

Justification: Each type of coating is distinct and requires its own search. A cage coated in substantially reflective material is the opposite of a cage coated in nonreflective material.

Specie Category #3: coating of the vesicle

Specie I:) the vesicle is coated in at least a partially a reflective material (claim 55) 4

Specie J: the vesicle is coated in at least a partially a non-reflective material (claim 57)

Generic to #3: Claims 1-54, 56, 58-67

Justification: Each type of coating is distinct and requires its own search. A vesicle coated in substantially reflective material is the opposite of a cage coated in nonreflective material.

Specie Category #4: size of the cage

Specie K:)the cage is greater than about one nanometer in diameter (claim 60) 🚩

Specie L: the cage is at least about 50 nanometers in diameter (claim 61)

Specie M: the cage is at least about 100 nanometers in diameter (claim 62)

Generic to #4: claims 1-59, 63-67

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Justification: Each range of cage size is distinct. Searching each cage size would require a search with undue burden, and a distinct search for each range of sizes.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, Ph.D., whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 7am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Ardin Marschel, Ph.D., Supervisory Patent Examiner, can be reached at (571) 272-0718.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

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Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

-RSN 1/19/06

Re2 1/19/06

PAGE 7/7 * RCVD AT 2/14/2006 1:06:08 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/27 * DNIS:2738300 * CSID:617 248 8886 * DURATION (mm-ss):02-26